

## KYLLA M. BENES, Ph.D.

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### EDUCATION

2016 Ph.D., Ecology and Evolutionary Biology, University of California Irvine  
2006 M.S., Biology, California State University Northridge  
2003 B.S., Biology, California State University Northridge

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### APPOINTMENTS

2017 Post-doctoral Scientist-in-Residence Fellow; Shoals Marine Laboratory  
2017 Adjunct Faculty; Shoals Marine Laboratory  
2016 Science Communication Intern; Assoc. for the Sci. of Limnology & Oceanography  
2014 – 2016 Graduate Research and Teaching Assistant; University of California Irvine  
2009 – 2014 Graduate Research and Teaching Assistant; Northeastern University  
2009 Adjunct Faculty; Riverside Community College  
2006, 2009 Adjunct Faculty; Occidental College  
2006 – 2009 Adjunct Faculty; Pierce Community College  
2006 – 2008 Adjunct Faculty; California State University Northridge  
2003 – 2006 Graduate Teaching Assistant; California State University Northridge

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### SCHOLARSHIP

#### ***Peer-reviewed Scholarly Articles***

Sorte C.J.B, V.E. Davidson, M. Franklin, **K.M. Benes**, M.M. Doellman, R.J. Etter, R.E. Hannigan, J. Lubchenco, and B.A. Menge (2017) Long-term decline in an intertidal foundation species parallel shifts in community composition. *Global Change Biology* 23: 341-352.

**Benes K.M.** and M.E.S. Bracken (2016) Nitrate uptake varies with tide height and nutrient availability in the intertidal seaweed *Fucus vesiculosus*. *Journal of Phycology* 52: 863-876.

Cryan A.E., **K.M. Benes**, B. Gillis, C. Ramsay-Newton, V. Perini, and M.J. Wynne (2015) Growth, reproduction, and senescence of the epiphytic marine alga *Phaeosaccion collinsii* Farlow (Ochrophyta, Phaeothamniales) from its type locality in Nahant, Massachusetts USA. *Botanica Marina* 58: 275-283.

**Benes K.M.** and R.C. Carpenter (2015) Kelp canopy facilitates understory algal assemblage via modification of settlement and recruitment patterns. *Ecology* 96:241-251.

Dudgeon, S.R., **K.M. Benes**, S.A. Krueger, J.E. Kübler, P. Mroz, & C.T. Slaughter (2009) On the use of experimental diets for physiological studies of hydrozoans. *Journal of the Marine Biological Association of the United Kingdom* 89:83-88.

**Articles in Preparation – Available Upon Request**

**Benes K.M.** and M.E.S. Bracken (*in preparation*) Intraspecific differentiation across a steep environmental gradient varies among regions. For submission to *Ecology*.

**Benes K.M.**, M.E.S. Bracken, and S.A. Krueger-Hadfield (*in preparation*) Population structure of an intertidal seaweed from local to regional scales. For submission to *Journal of Phycology*.

**Select Scientific Presentations**

- 2017 **Benes, K.M.** and M.E.S. Bracken. Context-Dependency of Phenotypic Differentiation Along the Intertidal Gradient. Paper, Benthic Ecology Meeting; Myrtle Beach, SC
- 2015 **Benes, K.M.** and M.E.S. Bracken. Geographic variation in phenotypic differentiation across the intertidal gradient. Paper, Western Society of Naturalists; Sacramento, CA
- 2014 **Benes, K.M.** and M.E.S. Bracken. Intraspecific variation in nutrient physiology of the intertidal seaweed *Fucus vesiculosus*. Paper, Joint Aquatic Sciences Meeting; Portland
- 2013 **Benes, K.M.** and M.E.S. Bracken. Nutrient Uptake Efficiency Ameliorates Limited Access Time to Nutrients in an Intertidal Seaweed. Paper, Northeast Naturalist Conference; Springfield, MA
- 2012 **Benes K.M.**, V. Perini and M.E.S. Bracken. Nutrient physiology of *Fucus vesiculosus* across, local, regional, and temporal scales in the Gulf of Maine. Paper, Western Society of Naturalists; Seaside, CA
- 2011 **Benes, K.M.** and M.E.S. Bracken. Local Adaptation in *Fucus vesiculosus* and its consequences for intertidal community structure and dynamics. Poster, Northeast Algal Symposium; Woods Hole, MA
- 2010 **Benes, K.M.** and M.E.S. Bracken. Phytoplankton growth in response to ocean acidification: a meta-analysis. Paper, Benthic Ecology Meeting; Wilmington, NC  
**(Received Best Paper Award)**
- 2006 **Benes, K.M.** and R.C. Carpenter. Kelp canopy effects on the settlement, recruitment, and reproduction of macroalgae: implications for understory populations and communities. Paper, International Temperate Reef Symposium; Santa Barbara, CA
- 2005 **Benes, K.M.** and R.C. Carpenter. Effects of *Eisenia arborea* on the development and structure of an understory algal community. Paper, Western Society of Naturalists; Seaside, CA
- 2004 **Benes, K.M.** and R.C. Carpenter. Effects of *Eisenia arborea* on the settlement, recruitment, and reproduction of understory algal species. Paper, Wrigley Marine Institute Summer Lecture Series; Santa Catalina Island, California

**Research Grants**

- 2011 Northeastern University, Office of Research, Seed Money Grant (wrote majority of proposal; co-PIs: M. Bracken, S. Vollmer); \$20,000
- 2010 Phycological Society of America, Grant-in-Aid of Research; \$1,100
- 2010 Sigma Xi, Grant In-Aid of Research; \$800
- 2004 CSUN Graduate Research and International Programs Research Grant; \$700
- 2004 CSUN University Corporation Student's Project Grant; \$1,383

**Award & Honors**

- 2014 Hoshaw Travel Award, Phycological Society of America; \$850
- 2013 Best Student Presentation; NEU Department of Biology Graduate Symposium
- 2010-14 Northeastern University Marine Science Center Student Travel Award (x5)
- 2010 Oceanic Research Group Scholarship; \$1,000
- 2010 Marine Technology Society; Graduate Scholarship; \$2,000
- 2010 Best Student Paper Award; Benthic Ecology Meeting; Wilmington, NC
- 2004 Graduate Equity Fellowship; \$2,000

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**TEACHING EXPERIENCE**
***Instructor of Record***

- 2009 Zoology (lab), Occidental College
- 2009 Anatomy and Physiology (lecture), Riverside Community College
- 2009 Health Science (lecture), Riverside Community College
- 2006-2009 Introductory Biology (lecture & lab), Pierce Community College
- 2006-2008 Marine Biology (lecture, lab & field studies), Pierce Community College
- 2008 Oceanology (high school field immersion course), Occidental College
- 2006-2008 Design & Analysis of Experiments (lecture & lab), CSU Northridge
- 2006-2008 Marine Biology (non-majors lecture), CSU Northridge

***Graduate Teaching Assistant***

- 2016 Way Your Body Works (lecture assistant), UC Irvine
- 2015 Ecological and Evolutionary Processes (discussion), UC Irvine
- 2015 Introductory Biology (discussion), UC Irvine
- 2009-2014 Marine Biology (lab), Northeastern University
- 2010-2013 Marine Botany (field immersion course), Three Seas Program, Northeastern
- 2010 Ecology (lab), Northeastern University
- 2004-2006 Design & Analysis of Experiments (lecture & lab), CSU Northridge
- 2004-2006 Marine Biology (lab & field studies), CSU Northridge
- 2004-2005 Invertebrate Zoology (lab), CSU Northridge
- 2003-2005 Introductory Biology (lab), CSU Northridge
- 2003-2005 Phycology (lab & field studies), CSU Northridge

***Public Education Instructor***

- 2012 & 2014 Coastal Ocean Studies Academy (jr. and sr. high school), Marine Science Center
- 2012 Science Summer Camp (high school), KIPP Lynn Academy

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**SERVICE & OUTREACH**
***Institutional Service***

- 2010-2012 Graduate Student Representative, Faculty of Biology, Northeastern University
- 2006 Associate Dean Position Search Committee, CSU Northridge

### ***Nontechnical Writing***

**Benes, K.M.**, M. Freckelton, A.A. Fong, S. Moen, and E. Wood-Charlson (2017) The ASLO Storytelling Series Connecting with Our Keiki (Hawaiian for “Children”). *Limnology & Oceanography Bulletin* 26: 92-93.

**Benes, K.M.** and B. Voss (2017) Message from the ASLO Communications Office: How a Professional Development Plan can Keep You Focused in a Busy World. *Limnology & Oceanography Bulletin* 26: 19-20.

**Benes, K.M.** (2017) Overcoming Barriers to Engaging in Science Communication: An Interview with Science Communicator Paige Brown Jarreau. *Limnology & Oceanography Bulletin* 26: 6-8.

2013-2016 Biodiverse Perspectives contributed to weekly “link dump” and wrote blog posts for undergraduate and graduate students interested in biodiversity science

- [Without a Seaweed Meadow](#) *May 31, 2016*
- [Degrading Forests and Extinction Debts](#) *April 1, 2015*
- [The Song I Sing to Thee \(Maybe\) Depends on the Tree](#) *June 4, 2014*
- [Diverse Introspectives: A conversation with Jay Stachowicz](#) *January 7, 2014*
- [Biodiversity Challenge: It’s What’s on the Inside that Counts](#) *November 1, 2013*

2012-2013 Between Northeastern Tides wrote 29 [blog posts](#) about graduate student life

### ***Oral & Multimedia Presentations***

2017 Assoc. for the Sciences of Limnology & Oceanography Member [Research Spotlight](#) Video  
2017 ASLO [Member Benefits](#) Video  
2017 ASLO [Meeting](#) Promotional Video  
2015 Strictly Fish Wrap Radio Hour [Guest](#)  
2012 *Seaweeds of Nahant* - Marine Science Center Public Lecture Series

### ***Professional Development***

2017 *Demystifying the Teaching Philosophy Statement for Academic Job Applications*: Student and Early Career Workshop given at the Aquatic Sciences Meeting (ASLO) in Honolulu, HI  
2017 *Sharing Science Through Storytelling*: Science Communication Workshop given at the Aquatic Sciences Meeting (ASLO) in Honolulu, HI

### ***Public Outreach Programs***

2010-2013 Marine Science Center Open House Demos and Tours  
2012 Biodiversity Day, Museum of Science, Boston MA  
2011 Families By The Sea – Girls, Inc. Beach Sisters Program

### ***Referee***

Journal of Ecology, Journal of Phycology, Marine Biodiversity Records, Marine Biology, Phycological Research

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### ADDITIONAL PROFESSIONAL EXPERIENCE & TRAINING

- 2015 Teacher training workshop: Designing Better Test Questions, UC Irvine  
 2015 Teacher training workshop: Leading Effective Discussion Sections, UC Irvine  
 2014 Teaching Associate Professional Development Program, UC Irvine  
 2014 Research Technician, Dr. Cascade Sorte, University of MA Boston  
 2012-2014 Research Assistant, Dr. Matthew Bracken, Northeastern University  
 2012 Pathways to Dissertation Project Workshop, Marine Science Center/COSEE  
       Concept mapping to [diagram](#) complex and interdisciplinary research  
 2011 Summer Institute in Statistical Genetics, Department of Biostatistics, U WA  
 2010 Structural Equation Modeling Workshop, Tjarno Marine Laboratory, Sweden  
 2008 Steelhead Trout Assessment, The Resource Conservation District of the Santa  
       Monica Mountains; Participated in monthly surveys of abundance and  
       distribution of steelhead trout in vernal pools of Topanga Creek  
 2007 Marine Algae Summer Course, Friday Harbor Laboratories, U of Washington  
 2003-2006 Research assistant, Dr. Robert C. Carpenter, CSU Northridge  
 2003 Biomechanics and Physiological Ecology PISCO Summer Course, Hopkins  
       Marine Laboratory, Stanford University  
 2002-2003 Research assistant, Dr. Steve R. Dudgeon, CSU Northridge  
 2002 Marine Biology Semester, Catalina Island, CSU Ocean Studies Institute  
 2001 Marine Parks Management, South Caicos, British West Indies  
       Boston University School for Field Studies

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### SOCIETY MEMBERSHIPS

Association of American Colleges & Universities, Association for the Sciences of Limnology & Oceanography, British Psychological Society, Earth Science Women's Network, Psychological Society of America

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### PROFESSIONAL REFERENCES

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|---|---|
| <p>Dr. Matthew Bracken (Ph.D. Advisor)<br/>           University of California Irvine<br/>           Ecology and Evolutionary Biology<br/>           321 Steinhaus Hall<br/>           Irvine, California 92697-2525<br/>           Phone: (949) 824-6976<br/>           Email: m.bracken@uci.edu</p>                   | <p>Dr. Cynthia Hays (Post-doc Mentor)<br/>           Keene State College<br/>           Biology Department<br/>           229 Main Street<br/>           Keene, New Hampshire 03435<br/>           Phone: (603) 358-2527<br/>           Email: chays@keene.edu</p>        |
| <p>Dr. Robert C. Carpenter (Master's Advisor)<br/>           California State University Northridge<br/>           Department of Biology<br/>           18111 Nordhoff Street<br/>           Northridge, California 91330-8303<br/>           Phone: (818) 677-3256<br/>           Email: robert.carpenter@csun.edu</p> | <p>Dr. Randall Hughes (Ph.D. Mentor)<br/>           Northeastern University<br/>           Marine Science Center<br/>           430 Nahant Road<br/>           Nahant, Massachusetts 01945<br/>           Phone: (781) 581-7370<br/>           Email: rhughes@neu.edu</p> |